

RECORDING MATERIAL CONTAINING NEW SQUARYLIUM COMPOUND, SILVER HALIDE PHOTOGRAPHIC PHOTOSENSITIVE MATERIAL, HEAT- DEVELOPMENT PHOTOSENSITIVE MATERIAL, HEAT-DEVELOPMENT IMAGE FORMATION METHOD, HEAT-SENSITIVE RECORDING MATERIAL, HEAT-SENSITIVE RECORDING IMAGE FORMATION METHOD, INFRARED-ABSORBING COMPOSITION, AND NEW SQUARYLIUM COMPOUND

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Abstract of JP2000265077

PROBLEM TO BE SOLVED: To obtain a material which gives images exhibiting a high sharpness and a low color turbidity by incorporating a new squarylium compound into the same.

SOLUTION: A squarylium compound represented by formula I, II or III is incorporated as a colorant for thermal conversion. In the formulas, at least one of A1 and A2 is a 5- or 6-membered N-containing heterocyclic aromatic ring; at least one of R3 and R4 is a 6-membered N-containing heterocyclic aromatic ring represented by formula IV; at least one of R5 and R6 is an (iso)quinoline ring; R1 and R2 are each H, -OR4 or -NR5R6; R4 is H or a group replaceable by O; R5 and R6 are each H or a group replaceable by N; a ring containing both R1 and R2 may be formed; R5 and R6 may combine with each other to form a 5- or 6-membered ring; Z1 to Z6 are each C or N provided that at least one of them is C and that at least one of C-atoms represented by Z1 to Z6 is bonded to a squarylium carbon of formula II; R3 is a group capable of being bonded to atoms forming a 6-membered N-containing heterocyclic aromatic group; and n1 is 0-4. An example of the squarylium compound is represented by formula V.

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